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Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

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Listing of Claims:

1. (Previously presented) A method of isolating genomic DNA from a sample, said method comprising (a) contacting said sample with a detergent and a solid support in the absence of any chaotropic agent, the solid support comprising an organic polymer, whereby soluble genomic DNA in said sample is bound to the support in a sequence-independent manner in the presence of the detergent and absence of any chaotropic agent, and (b) separating said support with bound genomic DNA from the sample.

2 - 4 (Cancelled)

- 5. (Original) A method as claimed in claim 1, further comprising disrupting or lysing structural components or cells in the sample prior to the contacting step.
 - 6. (Original) A method as claimed in claim 1, wherein the detergent is anionic.
- 7. (Original) A method as claimed in claim 6, wherein the detergent is sodium dodecyl sulphate, or another alkali metal alkylsulphate salt, or sarkosyl.
- 8. (Original) A method as claimed in claim 1, wherein the concentration of detergent is 0.2 to 30% (w/v).

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9. (Original) A method as claimed in claim 1, wherein the detergent is contained in a composition additionally comprising one or more monovalent cations, chelating agents or reducing agents.

- 10. (Original) A method as claimed in claim 1, wherein the detergent is used in alkaline solution.
 - 11. (Original) A method as claimed in claim 1, wherein the solid support is particulate.
- 12. (Original) A method as claimed in claim 11, wherein the solid support comprises magnetic beads.
- 13. (Original) A method as claimed in claim 1, wherein the solid support has a hydrophobic surface.
- 14. (Previously presented) A method as claimed in claim 1, wherein the genomic DNA is eluted from the support, following separation from the sample.
- 15. (Previously presented) A method as claimed in claim 14, wherein the genomic DNA is eluted by heating.
- 16. (Previously presented) A kit for isolating genomic DNA from a sample, the kit comprising superparamagnetic polystyrene beads and one or more detergents.
- 17. (Original) A kit as claimed in claim 16, further comprising one or more buffers, salts, lysis agents, chelating agents and/or reducing agents.
 - 18. (Cancelled)

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19. (Original) A method as claimed in claim 1, wherein the organic polymer is polyurethane.

- 20. (Original) A method as claimed in claim 1, wherein the organic polymer is polystyrene.
 - 21. (Original) A method as claimed in claim 1, wherein the organic polymer is latex.
- 22. (Original) A method as claimed in claim 1, wherein the solid support comprises superparamagnetic polystyrene beads.
 - 23. (Original) A method as claimed in claim 1, wherein the solid support is porous.
- 24. (Previously presented) A method as claimed in claim 1, the method further comprising the step of detecting, hybridizing, amplifying or quantifying the bound genomic DNA after the separating step.
- 25. (Previously presented) The method of claim 5, wherein the disrupting step is effected by one or more of grinding, heating, or alkaline lysis, of the sample.
 - 26. (Cancelled)
- 27. (Previously presented) A kit for isolating genomic DNA from a sample, the kit comprising (a) a solid support as defined in claim 1; (b) one or more detergents; and (c) instructions for isolating genomic DNA according to the method of claim 1.

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28. (Previously presented) A method of isolating RNA and genomic DNA from a sample, said method comprising (a) contacting said sample with a detergent and a solid support in the absence of any chaotropic agent, the solid support comprising an organic polymer, whereby soluble genomic DNA in said sample is bound to the support in a sequence-independent manner in the presence of the detergent and absence of any chaotropic agent; (b) separating said support with bound genomic DNA from the sample; and (c) isolating RNA from said sample.

- 29. (Previously presented) A kit for isolating RNA and genomic DNA from a sample, the kit comprising (a) superparamagnetic polystyrene beads; (b) oligo dT beads; and (c) one or more detergents.
- 30. (Previously presented) A kit for isolating RNA and genomic DNA from a sample, the kit comprising (a) a solid support comprising an organic polymer; (b) one or more detergents; and (c) instructions for isolating RNA and genomic DNA according to the method of claim 28.
- 31. (Previously presented) A method of isolating genomic DNA from cells in a sample, said method comprising (a) obtaining cells from said sample by immunomagnetic separation; (b) producing a lysate by contacting said cells with a detergent and a solid support in the absence of any chaotropic agent, the solid support comprising an organic polymer, whereby soluble genomic DNA in said lysate is bound to the support in a sequence-independent manner in the presence of the detergent and absence of any chaotropic agent; and (c) separating said support with bound genomic DNA from said lysate.
- 32. (Previously presented) A method as claimed in claim 31, wherein said cells are in a cell:bead complex.
- 33. (Previously presented) A method of isolating RNA and genomic DNA from cells in a sample, said method comprising (a) obtaining cells from said sample by immunomagnetic

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separation; (b) producing a lysate by contacting said cells with a detergent and a solid support in the absence of any chaotropic agent, the solid support comprising an organic polymer, whereby soluble genomic DNA in said lysate is bound to the support in a sequence-independent manner in the presence of the detergent and absence of any chaotropic agent; (c) separating said support with bound genomic DNA from said lysate; and (d) isolating RNA from said lysate.

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34. (Previously presented) A method as claimed in claim 33, wherein said cells are in a cell:bead complex.